

Teorijsko-praktične konferencije profesorova i profesorka načelnika
laboratorija

Professional Utilization & Institutional Rehabilitation of Criminally Incompetent, Vol. 2. (2 vols.) 1959. 205 p. 6x9. \$10.00. 1,000 copies printed.

FIG. 1. V. P. Baderov, Professor, and B. B. Baderov, Professor.

CONTRIBUTOR: The editor-in-chief constitutes the representative of the All-Russian Committee of Professors and Teachers of Pedagogical Institutes. The articles represent on recent theoretical and experimental investigations in the field of education and dedicate the application of educational science to the study of

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Association of Elasmobranchs (Cont.)

72
 C. C. Price and C. C. Price, *Physicochemical Properties of Liquid Crystalline and Colloidal Systems as a Function of Temperature*, in *Colloidal Systems on Daily Competition and Temperature*, G. D. Patterson, Ed., Marcel Dekker, New York, 1970.

Organic Substances
Bergmann, H. A. [Hans Christian] Polycondensed Dinitriles (cont.)
Kroghsmose, J. Determination of Absorbency of Elastomeric Networks by
Cryogenic Titrations to the Liquid-Cryogenic Transition Region

Watson, A. V. and B. B. Chapman. [Bacon's *Postscript and Annotations to the First Folio*]. Transcription of the *Postscript* of the *First Folio* of *Shakespeare's Dramatic Works*.

Application of Ultrasonics (Cont.)

卷之三

APPROVED FOR RELEASE: 03/13/2001

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KU 544 Y 77, H -

PAGE 1 BOOK INFORMATION 609/207

Vsesotsyiskaya konferentsiya professorov i prepodavatelye pedagogicheskikh institutov. Primenenie ultrazvukov k isledovaniyu rezhimov. (Utilisation of Ultrasonic for the Investigation of Modes) Moscow, Izd. MGPI, 1950. 267 p. 1,000 copies. (Series: Its Theory, pp. 11)

Ed. (title page): V.P. Bodrov. Professor and B.B. Karpovskiy, Professor.

PURPOSE: This collection of articles is intended for physicians specialising in the physics of ultrasound.

CONTENTS: The collection of articles constitutes the transactions of the VII Conference on the Application of Ultrasound to the Study of Materials, which was held at the Moscow Chist Politechnical Institute (now MGPI). Individual articles on the reduction of various physical quantities in the wave mechanics of ultrasound, the absorption and the propagation of ultrasound waves in various media, the operating principles and design of generators and receivers of ultrasound waves, the speed of sound and methods for its determination. Other articles deal with the applications of ultrasound to investigations of the properties of materials. No generalities are mentioned. References are given.

Editor, A.D., and V.P. Tsvetkov [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Elementary Theory of the Crystal Transformer. General and Specific

Editor, A.D., and V.P. Tsvetkov [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Problem of the Theory of Crystal Transformer. Some Problems in the Theory of Crystal Transformer

Editor, A.D., [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Utilisation of Ultrasound in Binary Mixtures

Editor, A.D., [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Theory of Molecular Assemblies

Editor, A.D., [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Theory of the State Factor

Editor, A.D., [Odnostoychivostnyy universitet Izd. MGPI, 1950]. Nekotorye voprosy o stoychivosti universiteta Izd. MGPI, 1950]. Stability of the Propagation of Sound Waves in a Liquid.

Editor, V.P., and A. Optibek [Department of Physics of the Agricultural College of Gatchina]. Verification of the Interpretation of Acoustic Concentration Curves

Editor, A.D., and V.P. Tsvetkov [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Experimental Basis of Multiple Echoes in Ultrasound

Editor, O.A., and P.I. Oshchepkov [Institut metallicheskikh elementov Akademii Nauk SSSR - Institute of Metallurgy of the Academy of Sciences (now).] Using the Electron-Analyzer Transformer for Investigating the Stochasticity of Metals

Editor, B.M. [Otdeleniye radioelektronnykh ustroystv Opticheskogo Instituta]. Changing the Natural Frequency of Mechanical Resonators With the Aid of Additional Masses

Editor, V.P. [Tsvetov Politechnical Institute]. The Electromagnetism of a Liquid as a Source of Ultrasonic Oscillations

Volosovitch, M.P., and Pol. Ryab [Institut fiziki zemli Akademii Nauk SSSR. Institute of Physics of the Earth Akademii Nauk]. Investigation of Elastic Properties of Rock Samples Under All-around Pressures of Up to 1000 kg/cm²

Editor, V.P., and B.B. Karpovskiy [Moscow Chist Politechnical Institute Izd. MGPI, 1950]. Properties of Sound in Elastome

CONT. 1/7

S/194/62/000/004/072/105
D295/D306

AUTHOR: Kustova, A. V.

TITLE: Dynamic methods for the investigation of polymers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 4, 1962, abstract 4-5-42v (V sb. Primeneniye ul'-traakust. k issled. veshchestva. no. 13, M., 1961, 293-306)

TEXT: Methods of investigation of the dynamic properties of polymers are reviewed. The great importance of acoustical methods is emphasized. The connection between quantities measured in experiment and the characteristics of polymers is shown. The basic dynamic characteristics of polymers are found from general considerations. Kelvin-Voigt and Maxwell's models are used to show their connection with the structure of polymers. An analysis is given of the basic methods of investigation of the dynamical properties of polymers and their limits of applicability. It is shown that, in order to obtain a complete picture of the dynamic properties of

Card 1/2

Dynamic methods for ...

S/194/62/000/004/072/105
D295/D308

polymers, the use of several methods is needed. The basic dynamic characteristics are considered to be: the absolute value and the imaginary and real parts of the dynamic modulus of elasticity, the mechanical loss angle and the energy-dissipation coefficient. The use of polymer models enables the characteristics to be related to elasticity and viscosity. 40 references. *[Abstracter's note: Complete translation.]*

Card 2/2

15.9300
8/058/63/001/075/120
A160/A101

AUTHOR: Kustova, A. V.

TITLE: The effect of the structure of the space grid on the hysteresis losses in rubber

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 30, abstract 1E181
(In collection: "Primeneniye ultrakust. k issled. veshchestva",
no. 16, M., 1962, 3 - 11)

TEXT: An investigation was conducted on the effect of the space-grid structure of non-filled rubber from natural caoutchouc on the magnitude $\operatorname{tg} \delta$ in the region of low frequencies (25 - 100 cps) at small oscillation amplitudes. The magnitude of $\operatorname{tg} \delta$ is determined by the method of free oscillations. The sample, having the form of a girder with a 5 x 6-mm² section, was vertically fastened between two plane-parallel plates and was unbalanced with a help of a motor rotating at a speed of 1 rev/sec. The oscillations of the free end of the sample were recorded by an oscillograph. The space-grid structure of the rubber was changed by changing the temperature (143 - 160°C) and the vulcaniza-

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The effect of the structure of the...

3/058/63/000/001/075/120
A160/A101

tion time t_{vulc} (2 - 120 min). To determine the space grid of the rubber, a conditional module of elasticity and the magnitude of M_c were used, calculated by the swelling method. The curves of the relation between M_c and t_{vulc} pass through a minimum in all ranges of the temperatures investigated. It is shown that the highest density of the vulcanization grid corresponds to the minimum losses in the rubber. The observed results are explained within the framework of Patrikeyev's frame theory.

A. Sidorovich

[Abstracter's note: Complete translation]

Card 2/2

S/081/63/000/003/035/036
B144/B106

AUTHOR: Kustova, A. V.

TITLE: Effect of the structure of the space network on hysteresis losses in rubber

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 639, abstract 3T376 (Primeneniye ul'traakust. k issled. veshchestva, no. 16, M., 1962, 3-11)

TEXT: The effect of the structure of the space network of uncompoounded rubber from natural rubber was studied on the value of the tangens of the angle, $\tan \delta$, of mechanic losses in the frequency range 25 - 100 cps at small vibration amplitudes. $\tan \delta$ was determined by the method of free vibrations in the rubber sample according to the value of the logarithmic damping decrement. The structure of the space network was changed by varying the temperature ($143 - 165^{\circ}\text{C}$) and the time (2 - 120 min) of vulcanization. The smallest $\tan \delta$ and minimum hysteresis losses correspond to the most compact vulcanization network. When the compactness of the vulcanization network increases, the number of rubber molecule parts under

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Effect of the structure of the space ...

S/081/63/000/003/035/036
B144/B186

elastic stress in deformation may increase. In the part under elastic stress hysteresis losses are absent. An increase in the number of these parts in the optimum vulcanization region leads to the least energy loss in the rubber when it works under dynamic conditions in the low-frequencies region. [Abstracter's note: Complete translation.]

Card 2/2

KUSTOVA, A.V.

Effect of the structure of the space lattice on the
hyateresis losses in rubber. Prim.ul'treakust.k issl.veshch.
no.16:3-11 '62. (MIRA 16:4)
(Rubber, Synthetic) (Hysteresis)

L 33337-66 EWT(1)/EWT(m)/EWP(j) IMP(c) GD/RM
ACC NR: AT6013392 (A) SOURCE CODE: UR/000/62/000/000/0003/0011

AUTHOR: Kustova, A.V.

38
B4

ORG: None

TITLE: Influence of space net structure on hysteresis losses in rubber

SOURCE: Moscow. Oblastnoy pedagogicheskiy institut. Primemeniye ul'traakustiki k issledovaniyu veshchestva, no. 16, 1962, 3-11

TOPIC TAGS: rubber, elastic hysteresis, elastic modulus, molecular weight, vulcanization

ABSTRACT: Influence of space net structure of rubber upon its elastic modulus and internal damping was investigated. For this purpose, the relations between average molecular weight of a molecular cell and internal damping was studied. The hysteresis loss per cycle, dW , is related to the angle, δ , of mechanical losses: $dW/W=2 \operatorname{tg}\delta$ (1) where W is the total work of the deformation cycle. The apparatus is shown in Fig. 1. Oscillations of the sample's free end were actuated by an arm of the shaft and evaluated. Natural unfilled rubber was used (smoked sheets - 100.0, sulphur - 3.0; ZnO - 5.0, captex - .7; stearic acid - 1.0). Fig. 2 shows vulcanization time and frequency influence on $\operatorname{tg}\delta$. Fig. 3 - $\operatorname{tg}\delta$ dependence on molecular weight of a molecular cell at 50 cycles/second. Author thanks prof. B.B. Kudryavtsev and prof. G.A. Patrikeyev for aid and interest in this work.

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ACC NR: AT6013392

Fig. 1. Apparatus. 1 - sample; 2 - motor
 3 - electromagnetic sensor; 4 - amplifier
 5 - power amplifier; 6 - oscillograph; 7 - oscilloscope

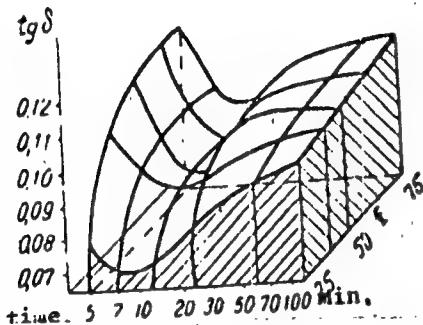
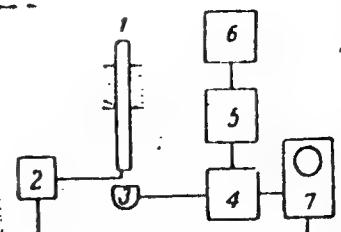


Fig. 2. $\text{tg } \delta$ dependence upon frequency and vulcanization time

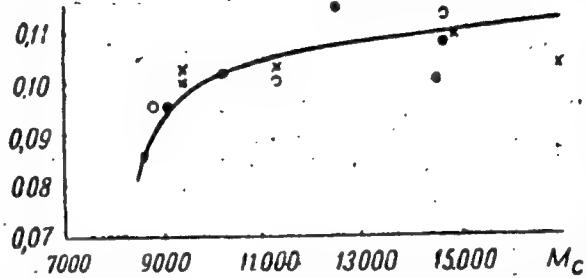


Fig. 3. Relation between $\text{tg } \delta$ and average molecular weight of a rubber molecular cell.

Orig. art. has 9 figures.

SUB CODE: 11/
 Card 2/2 ULR

SUBM DATE: 20Mar62/

ORIG RRP: 007/

OTH REF: 001

GAGARINSKIY, Yu.V.; RUCHKIN, Ye.D.; LUK'YANOVA, L.A.; KUSTOVA, G.N.;
BATSANOV, S.S.

Crystal chemical study of thorium tetrafluoride hydrates. Izv.
SO AN SSSR no.11 Ser.khim.nauk no.3:8-16 '63. (MIRA 17:3)

L 42884-66 EIT(m)/EMP(1)/EMP(t)/ETI LJP(c) JD 55/JG/RM
ACC NR: AP6020386 (A) SOURCE CODE: UR/0192/66/007/001/0122/0123

AUTHOR: Batsanov, S. S.; Kustova, G. N.

ORG: Institute of Inorganic Chemistry, SO AN SSSR, Novosibirsk (Institut neorganicheskoy khimii SO AN SSSR)

TITLE: Optical properties of rare earth oxides. Part 4: Polythermal study of neodymium acetate and hydroxide

SOURCE: Zhurnal strukturnoy khimii, v. 7, no. 1, 1966, 122-123

TOPIC TAGS: neodymium compound, IR spectrum, thermal decomposition

ABSTRACT: The formation of neodymium oxide from the acetate and hydroxide was studied by means of IR spectra. Neodymium acetate $\text{Nd}(\text{C}_2\text{H}_5\text{CO}_2)_3 \cdot 6\text{H}_2\text{O}$ was heated to 100, 200..., 1200°, each time to a constant weight, and its spectra were recorded. An appreciable decomposition begins at 330°, and an absorption band due to the Nd-O bond appears in the absorption spectrum at 400 cm^{-1} . The band has two humps, i. e., is characteristic of the C form of Nd_2O_3 . The acetate ions are completely decomposed at 600°. The C-A transition occurs at 700°. The intensity of the 400 cm^{-1} band increases with heating and holding of the samples at 700, 800, and 900° as the content of Nd_2O_3 increases. Heating at 1000 and 1100° does not change this intensity, but after prolonged holding at 1200°, the intensity drops sharply. A similar result was obtained in a spectroscopic study of the thermal decomposition of neodymium hydroxide. At 900°, the C form

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UDC: 541.65

L 42004-6

ACC NR: AP6020386

0

of Md_2C_3 changed into the A form. Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 20Feb65/ ORIG REF: 003/ OTH REF: 001

Card 2/2 *lhd*

ACCESSION NF: AP4012438

S/0078/64/009/002/0330/0334

AUTHORS: Batsanova, L. R.; Kustova, G. N.

TITLE: Oxyfluoride of rare earth elements

SOURCE: Zhurnal neorg. khim., v. 9, no. 2, 1964, 330-334

TOPIC TAGS: lanthanum oxyfluoride, praseodymium oxyfluoride, neodymium oxyfluoride, samarium oxyfluoride, gadolinium oxyfluoride, dysprosium oxyfluoride, yttrium oxyfluoride, lanthanum fluoride hydrolysis, density, refractive index, x ray data, IR spectrum

ABSTRACT: The oxyfluorides of La, Pr, Nd, Sm, Gs, Dy, and Y were prepared by two methods: (1) reacting equimolar amounts of the Ln_2O_3 and LnF_3 at $1000-1100^\circ$: $\text{La}_2\text{O}_3 + \text{LaF}_3 \rightarrow 3\text{LaOF}$; (2) partial hydrolysis of the LnF_3 at $800-900^\circ$: $\text{LaF}_3 + \text{H}_2\text{O} \rightarrow \text{LaOH} + 2\text{HF}$. Densities and refractive indices were determined; x-ray data was obtained. IR spectra of the rare earth oxyfluorides show strong absorption in the $400-550 \text{ cm}^{-1}$ region. Orig. art. has: 3 Figures and 3 Tables.

1/2
Card

ACCESSION NR: AP4012438

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya
AN SSSR (Institute of inorganic chemistry, Siberian
Branch AN SSSR)

SUBMITTED: 25Jan63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: CH

NR REF SOV: 003

OTHER: 008

2/2

Card

L 25785-64 EWG(j)/EMT(m)/EPF(o)/E'R/EWP(t)/EWP(b) Pr-4/Ps-4
IJP(c) D/JG

ACCESSION NR: AP5007755

S/0192/65/006/001/0058/0065

28
21
b

AUTHOR: Batsanov, S. N.; Kugtova, G. N.; Ruchkin, Ye. D.; Grigor'yeva, V. S.

TITLE: Optical properties of rare earth metal oxides. 2. A polythermic study of neodymium oxide

SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 1, 1965, 58-65

TOPIC TAGS: rare earth oxide, oxide optical property, neodymium oxide, polymorphic transformation, neodymium nitrate, neodymium oxalate, neodymium sulfate, neodymium coordination number, neodymium oxide structure

ABSTRACT: The authors report the results of X-ray, refractometric and spectroscopic studies of Nd₂O₃ obtained by roasting neodymium nitrate, oxalate and sulfate at 600-1300°C in air. The nitrate proved least and the sulfate most resistant to heat. It was shown that a sufficiently pure oxide is only obtained at 1100°C. Upon dissociation of the Nd sulfate, the oxy sulfate was obtained (Nd₂O₂SO₄) between 800 and 1000°C. This was also studied. Polymorphic C → A transformation was detected for the oxalate at 700-800°C, for the nitrate at 800-900°C. No such transformation was seen for the sulfate where the A-form

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L 36935-65
ACCESSION NR: AP5007755

0

appeared at 1100C. Under the experimental conditions, no B-form was detected. Refractometric studies showed irregular changes in density with increasing temperature; however, a decrease in density was noted for all specimens at 1200C. The maximal density between 1000 and 1100C may be related to the existence of the B-modification. The structures of the A and C form were shown to differ by the coordination numbers of the metal atom, 7 for A and 6 for C- Nd_2O_3 . In spectroscopic determinations on the nitrate, the Nd-O band started at 400, corresponding to the formation of the oxynitrate, and persisted to 900C. Similar results were obtained for the oxalate. For the sulfate, the Nd-O bond appeared only around 900C, together with that of SO_4^{2-} corresponding to the existence of the oxysulfate rather than a mixture of the sulfate and oxde. The oxysulfate disappeared completely at 1100C. The 2 maxima obtained for the Nd-O bond in the sulfate suggest that isolation of SO_3 at this temperature might also yield the C-form for the sulfate. In the process of thermal dissociation of the salts, the absorption intensity $\nu(\text{Nd}-\text{O})$ was observed to increase at the beginning, due to increase in Nd_2O_3 concentration in the specimen, and then drop due to a decrease in the number of defects in the structure. Orig. art. has: 3 figures and 5 tables.

Card 2/3

L 36935.55
ACCESSION NR: AP5007765

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR, Novosibirsk (Institute of Inorganic Chemistry, SO AN SSSR)

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE: IC, OP

NO REF Sov: 005

OTHER: 008

Card

3/3 *bc*

KUDRIN, I. M., prof.; KUSTOVA, I. I.

Use floodland soils intensively. Zemledelie 27 no.9:54-55 S '65.
(MIRA 18.10)
I. Gor'kovskiy sel'skokhozyaystvennyy institut.

BOUCHALOVA, M., mudr.; SRACKOVA, D., mudr.; KUSTOVA, L.; GERYLOVOVA, A., prom.
mat.

Contribution to the study of the state of health in children. II.
The state of health in children according to medical examinations.
Cesk. zdrav. 10 no.7/8:392-398 '62.

I. Ustav zdravotnictvi lekarske fakulty University J.E.Purkyne v Brne
II. detska klinika lekarske fakulty University J.E.Purkyne v Brne.
(CHILD WELFARE)

KODAKOV, A. I. RESERVE, L.

Poultry - Feeding and Feeding Stuffs

Getting cockerels ready for fattening.
Kino. Ind., 23, No. 4, 1952.

Monthly List of Russian Acquisitions, Library of Congress, number 1952. Unclassified.

CZECHOSLOVAKIA

NUVAK, A.; POLIBRAKESKÝ, E.; KUSTOVÁ, L.

1. X-ray and Nuclear Medicine Section (Katedra radiologie a
med. lekarství), LF UKF, Brno; 2. First Pediatric Clinic
(I. dětská klinika), LF UKF, Brno; 3. Second Pediatric Clinic
(II. dětská klinika), LF UKF, Brno

Brno, Vnitřní lekarství, No 5, May 1966, pages 481-483

"Diagnosis of Vesico-Ureteric reflux by means of isotope renography."

SHCHEMINIKOV, S., doktor veterinarnykh nauk; PETROVSKAYA, Ye., kandidat veterinarnykh nauk; KUSTOVA, L., kandidat tekhnicheskikh nauk; KRASNITSKAYA, K.

Methods for determining the freshness of poultry meat and fat. Minsk.
Ind. SSSR 26 no.5:51-53 '55. (MLRA 9:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsopremyshlennosti.
(Poultry) (Oils and fats, Edible)

STROGANOV, P., elektronomenter; KUSTOVA, L.; D'YACHKOV, N., slesar'

Congress will be held soon. Izobr.i rnts. no.5 (201):19 '63.
(MIRA 16:7)
1. Moskovskiy zavod "Serp i molot" (for Stroganov). 2. Zavod
"Krasnyy Proletariy" (for D'yachkov).
(Technological innovations)

KUSTOVA, L. (g. Vladimir)

I simply like it. Izobr. i rats. no.4:5 '63. (MIRA 16:7)

(Vladimir—Acetic anhydride)

SHIKOBALOVA, N. P., KUSTOVA, L. I., KOSILOV, A. M.

Worms, Intestinal and Parasitic

Effect of ascarids on vitamin A content in chick liver. Trudy Gel'm. lab.
no. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1953, Uncl. 2

KUZNETSOV, I.A.; KUSTOVA, L.V.; GORSHKOV, V.I.; PANCHENKOV, G.M.

Equilibrium of cation exchange of alkali metals on cation
exchange resins KU-1 and KU-2. Vest.Mosk.un.Ser.2:Khim. 18
no.2:10-13 Mr-Ap '63. (MIRA 16:5)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.
(Alkali metals) (Ion exchange resins)
(Chromatographic analysis)

GORSHKOV, V.I.; KUZNETSOV, I.A.; PAVLENKOV, G.M.; KUSTOVA, L.V.

Continuous countercurrent ion exchange method for separation of lithium and sodium. Zhur. neorg. khim. 8 no.12:2790-2794. p.163.

Feasibility of countercurrent ion exchange separation of rubidium and cesium. Ibid.:2795-2799 (MIRA 17:10)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra fizicheskoy khimii.

TSERKOVITSKAYA, I.A.; KUSTOVA, N.A.

Amperometric determination of V^{4+} and V^{3+} when they are present simultaneously. Vest. LGU 15 no. 16:148 '60. (MIRA 13:8)
(Vanadium--Analysis)

TSERKOVNITSKAYA, I.A.; PRUDNIKOV, Ye.D.; KUSTOVA, N.A.

Effect of organic complexing agents on the oxidation-reduction potential of the V^{4+}/V^{3+} system. Vest.LGU 16 no.10:133-134 '61.
(MIRA 14:5)

(Vanadium compounds) (Oxidation-reduction reaction)
(Complex ions)

.....

Kustova, G.O.--"Synthetic Investigations in the field of Abietic Acid."
Sov. Sci., All-Union Sci. Inst. of Synthetic and Natural Essential Oils, Moscow,
1953. (INFORMATIVNY ZHURNAL--Khimika, no 1, Jan 54)

Source: SSM 168, 22 July 1954

KUSTOVA, S.D.; BELOV, V.N.

Preparation of methyl ether of tetrahydroabietic acid and
tetrahydroabietyl alcohol. Trudy VNIISNDV no.2:58-60 '54.

(MLRA 10:7)

(Methyl ether) (Phenatrenecarboxylic acid) (Abietyl alcohol)

KUSTOVA, S.D.

USSR/Chemistry

Card 1/1

Authors : Belov, V. N., and Kustova, S. D.

Title : Study of certain abietic acid conversions

Periodical : Zhur. Ob. Khim., 24, Ed. 6, 1087 - 1094, June 1954

Abstract : Heating of abietic acid with water under pressure at a temperature of 230 - 250°, yields 12 - 13% abietene. Decarboxylation of the acid sodium salt of abietic acid, in the presence of alkali, takes place at the same temperature, with a result of a 40% yield of abietene. The bromide forming during the reaction of abietene with N-bromosuccinimide is unstable at an above zero temperature. Complete dehydrogenation of the abietene is the result of such reaction. The derivation of tetrahydroabietene, as result of reaction between hydrochloride of tetrahydroabietylamine and nitrous acid, indicates that no cycle isomerization occurs during the substitution of the amino group by the hydroxyl. Eleven references.

Institution : All-Union Scientific-Research Institute of Synthetic and Natural Perfumes

Submitted : December 21, 1953

F. S. D.

Distr: 4243/423d

New synthesis of isopropyl, V. N. Il'inskii, N. A. Davy, S. D. Istrova, K. V. Lebedeva, S. V. Tsvetkov, I. V. Vetrov, V. V. Kostylev, and A. K. Skurzinskii, Zav. Chkhart. Akad. Nauk, 27, 1520-1524 (1957). Treatment of $(\text{CMe}_2\text{CH}_2)_2$ with dry HCl with ice cooling gave 90% isomeric chloro-
isopropylbenzenes, bp 35-40°. Thus material (20 g.) and 144 g.
 SnCl_4 in CHCl_3 and, after 20 min., with 200 ml. satd. an-
 NaCl yielded 15.8% α -nitroisopropylbenzene, bp 70-8°, n_D^{20}
1.4818, d_4^{20} 0.9035. This (50 g.) and 10.3 g. dry pyridine in 5
hrs. at 60-8° gave 71.5% α -nitroisopropylbenzene, which (50 g.) kept
3 hrs. at room temp. with 20.7 g. $\text{P-Na}_2\text{NC}_6\text{H}_5\text{NO}_2$, 370 ml.
 Et_2O , and 0.5 ml. $N\text{-NaOH}$, dilut. with 750 ml. H_2O , kept
20 hrs. with ice cooling, exsul. with CaH_2 and the nitro
decomposed, with 2N HCl gave 20.6% crude α -nitroisopropylbenzene,
which after steam distn. had 45° 1.4915, d_4^{20} 0.9141. Alter-
natively 50 g. isopropine in 200 g. MgBr freed of part of the
solvent by distn. to 110°, heated on a steam bath 3 hrs., with
50 g. isopropyl chloride, and repeatedly treated with uno-
nitropropane gave an aq. soln. of the Sommier complex, which,
treated with 100 g. formic acid, with NaCl and steam,
yielded 10 g. α -nitroisopropylbenzene, bp 50-3°, n_D^{20} 1.4910. The
 SnCl_4 was stirred 70 hrs. at 18-25° and exsul. with Et_2O gave
4.3 g. crude α -nitroisopropylbenzene, bp 124-6°, n_D^{20} 1.5318, d_4^{20} 0.9045.
This (1.9 g.) in 70 ml. CH_2Cl_2 treated at 0° with BF_3 until
Oil, and exsul. with CaH_2 , then repeatedly with NaOH ,
yielded a range of fractions, bp 64-77°, with 1 g. 1.6032,
1.6022, and d_4^{20} 0.9343, values agreeing with those of some
above α -nitroisopropylbenzenes prepared by cyclization with BF_3 . The α -nitroisopropylbenzene prepd.
above contains about 67% α -nitroisopropylbenzene, as shown by its
phys. constn.

f.m.

11

G. M. Kondratenko

29

KORE, S.A.; KUSTOVA, S.D.; BELOV, V.N.

Intermediate products of the synthesis of odorous substances.

Report No.9: Converting primary chlorides to corresponding
aldehydes by the Kröhnke method. Trudy VNIISNDV no.4:39-41
'58. (Aldehydes) (Perfumes, Synthetic)

NOVOTEL'NOVA, N.F.; KUSTOVA, S.D., kand.khim.nauk

Composition of the residual part of Chinese citronella
oil after the extraction of geraniol, citronellol, and
citronellal. Masl.-shir.prom. 25 no.10:28-29 '59.
(MIRA 13:2)

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skikh i natural'nykh dushistykh veshchestv.
(Citronella oil)

SIBIRTSEVA, V.Ye.; VIREZUB, S.I.; KUSTOVA, S.D.

Odorous substances from sclareol. Report No.1: Ambrial and
ambroxido. Trudy VNIISNDV no.5:9-14 '61. (MIRA 14:10)
(Odorous substances) (Sclareol)

BAG, A.A.; BLIZNYAK, N.V.; BULANOVA, A.V.; KUSTOVA, S.D.; CHERKAYEV, V.G.

Odorous substances from sclareol. Report No.2: Possibility for
converting the lactone 1,1,6,10-tetramethyl-6-oxy-5-methylene-
carboxydecalin into 1,1,6,10-tetramethyl-6-oxy-5 (β -oxy)-
ethyldecalin by catalytic hydrogenation. Trudy VNIISNDV no.5:
14-16 '61. (MIRA 14:10)

(Odorous substances) (Naphthalene)

SIBIRSEVA, V.Ye., inzh.; KUSTOVA, S.D., kand.khimicheskikh nauk;
KOGAN, G.I., inzh.; NAKANOVITSKAYA, I.S., inzh.

Industrial method of preparing ambrial (bicyclohomofarnesal).
Masl. - zhir. prom. 27 no.12:31-32 D '61. (MIRA 14:12)

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2. Noginskaya kosmeticheskaya fabrika (for Kogman, Nakanovitskaya).

(Farnesol.)

DOTSENKO, P.Ya.; TISHKOVA, V.S.; RYZHKOVA, Ye.A.; SIBIRTSEVA, V.Ye.;
LESHCHINER, A.S.; KUSTOVA, S.D.

Improved method for obtaining rose and azalea absolute. Masl.-
zhir. prom. 29 no.5:43-44 My '63. (MIRA 16:7)

1. Sovkhoz-savod "Elit" (for Dotsenko, Tishkova, Ryzhkova).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteti-
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Leshchiner, Kustova).
(Essences and essential oils)

AVAKOVA, I.S.; KUSTOVA, S.D.; TITOVA, N.F.

Composition of the hydrogen-containing fraction of low menthol
peppermint oil. Trudy VNIISNDV no.č:125-127 '63. (MIRA 17:4)

AVAKOVA, L.B.; KUSTOVA, S.D.; RUDOL'FI, T.A.; SEVERTSEV, V.A.; TITOVA, N.B.;
CHERKAYEV, V.G.; SHCHEDRINA, M.M.

Increasing the menthol content of low menthol peppermint oil.
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KUSTOVA, T.I.

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1. Luganskiy gornometallurgicheskiy institut.

KUSTOVA, V.

To all parts of the world. Vnesh. torg. 41 no.9:18 '61.
(MIRA 14:8)
(Moscow--Textile industry)
(Russia--Commerce)

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LEFIMOVA, N.M.; BABURSKAYA, Z.T.; POZDNYAKOVA, K.I.; SHCHEGLOVA,
K.D.; KUSTOVA, V.T.; POD"YACHIKH, P.G., red.; STRONGIN, V.L.,
red.; PYATAKOVA, N.D., tekhn.red.

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TSYBUL'SKIY, Vladimir Vasil'yevich; KUSTOVA, Ye., red.; RUDINA, G.,
tekhn. red.

[P.A. Chikhachev, an outstanding explorer of the Altai]

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(MIRA 13:2)

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KUSTOVA, Ye.A.

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im. N.A. Semashko (direktor - dotsent Ye.D. Ashurkov).
(PUBLIC HEALTH) (SYSIN, ALEKSEI NIKOLAEVICH, 1879-)

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Problems of prophylaxis at the Seventh All-Russian Congress of Health Departments. Sov.zdrav. 19 no.5:9-13 '60. (MIRA 13:9)

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A.N. Sysin. Gig.1 san. 25 no.1:53-56 Ja '60. (MIRA 13:5)

1. Is Instituta organizatsii zdravookhraneniya i istorii meditsiny
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(BIOGRAPHIES)
(SANITATION)

KUSTOVA, Ye.A.

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Zdrav. Bol. 7 no. 2:60-61 F '61. (MIRA 14:2)

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im. N.A. Semashko (direktor Ye.D. Ashurkov).
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KUSTOVA, Ye.A.

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sanitation in our country. Zdrav. Bel. 7 no.10:76-78 O '61.

(MIRA 14:11)

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instituta A.B.Shevolev).

(SANITATION)

KUSTOVA, Ye.A.

Problem of training and postgraduate education of sanitary personnel and activities of the Scientific Medical Council of the People's Commissariat of Public Health of the R.S.F.S.R. (1918-1932). Gig.i san. 26 no.3:50-54 Mr '61. (MIRA 14:7)

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(MEDICINE)

VISHNEVSKAYA, Iraida Ivanovna; SOKOLOV, Aleksandr Aleksandrovich;
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[Medical care for the rural population at the Kalinin Province Hospital] Meditsinskoe obsluzhivanie sel'skogo naseleniya Kalininskoi oblastnoi bol'nitsy. Moskva, Medgiz, 1962. 106 p. (MIRA 16:10)

(KALININ PROVINCE--HOSPITAL CARE)
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ZYKOV, Il'ya Vasil'yevich; KUSIOVA, Ye.G., red.; RUDINA, G.V., tekhn.
red.

[Nature calendar of Kemerovo Province] Kalendar' prirody Kemerovskoi oblasti. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1960.
126 p. (MIRA 15:11)
(Kemerovo Province--Nature study)

1.07/77-07 MT(m)/EWP(t)/ETI IJP(c) JD/IR/AB
ACC NR: AP6034190 SOURCE CODE: UR/0369/66/002/005/0515/0517

AUTHOR: Novokreshchenov, P. D.; Kustova, Yu. Ye.

1/5
1/3

ORG: Pedagogical Institute, Voronezh (Pedagogicheskiy institut)

6

TITLE: Investigation of the effect of low-melting metal coatings on
nickel recrystallized at various temperatures

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 5,
1966, 515-517

TOPIC TAGS: nickel, bismuth, ~~coated nickel~~, cadmium ~~coated~~,
zinc ~~coated~~, ~~coated nickel structure, coated nickel~~ internal
friction, metal coating

ABSTRACT: The effect of low-melting metal coatings on the structure and
internal friction of nickel has been investigated. NP-2 nickel speci-
mens 1 mm in diameter annealed at 650, 750 or 850C to obtain a respec-
tive grain size of 0.03, 0.20 and 0.30 mm were coated with bismuth,
cadmium or zinc by dipping. The thickness of the coating did not exceed
30—35 μ . The tensile strength of specimens annealed at 650, 750 and
850C was 42.2, 37.1, and 39.2 kg/mm², respectively, and the elongation
was 26.6, 20.4, and 20.7%. All three metals were found to have a sig-
nificant effect on the internal friction of nickel (see Fig. 1).

Card 1/2

L 07795-67
ACC NR: AP6034190

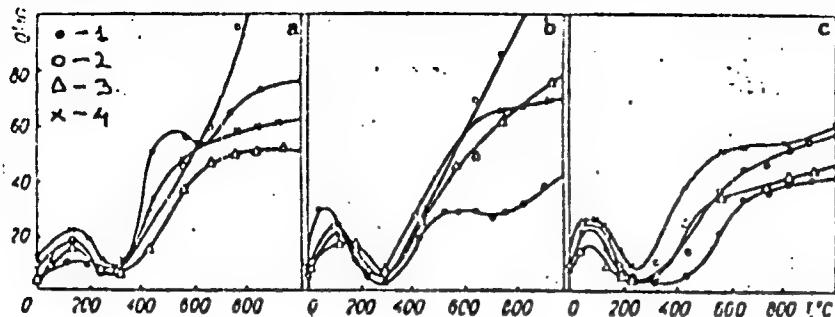


Fig. 1. Internal friction of nickel annealed at 650 (a), 750 (b), and 850°C (c) and uncoated (1) or coated with bismuth (2), cadmium (3), or zinc (4).

The effect was especially pronounced in nickel annealed at 750°C, in which the grain size amounts to 20% of the specimen diameter. The penetration of surface-active metals into nickel proceeds primarily along grain boundaries and structure defects. Annealing at 850°C forms a structure with a small number of grain-boundary defects and dislocations. As a result, the increase of internal friction is insignificant. Orig. art. has: 2 figures.

SUB CODE: 11, 14/ SUBM DATE: 15Mar66/ ORIG REF: 012/ OTH REF: 001
ATD PRESS: 5101

Cord 2/2 1.5

Materialy
MATVEYeva, N.N.; SMIRNOVA, Z.M.; KUSTOVA, Z.M.; VASIL'YEVA, N.V.; GEL'CHINSKIY,
B.Ya.; OZEROV, D.K.; MAMUKHOV, A.V.; OOL'TSMAN, F.M.; PETRASHEN', O.I.,
red.; VOLKHOV, R.S., tekhn. red.

[Papers on the quantitative study of seismic wave dynamic] Materialy
kolichestvennogo izuchenija dinamiki seismicheskikh voln. Pod.
rukovodstvom i red. O.I.Petrashen'. [Leningrad] Izd-vo Leningr.
univ. Vol. 1. 1957. 420 p. Vo.2. 1957. 152 p. (MIRA 11:2)

1. Akademija nauk SSSR. Matematicheskiy institut, Leningradskoye
otdeleniye.
(Seismometry)

CHEREPENIN, L.A., inzhener; KUSTOVSKIY, B.B., inzhener.

Quality of coke. Lit. proizv. no.2:29 F '57.
(Coke)

(MLRA 10:4)

KOLODTSEV, Kh.I., kand.fiz.-matem.nauk; BABIY, V.I., kand.tekhn.nauk
KUSTOVSKIY, S.P., inzh.

VTI gas generator for gas-turbine systems. Teploenergetika
8 no.4:44-48 Ap '61. (MIRA 14:8)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Gas turbines)

KUSTRA, T.; MISIK, A.; SZABO, L.

Experiences with trypsin therapy of chronic maxillary sinusitis. Cesk. otolar. 7 no.5:279-283 Oct 58.

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(SINUSITIS, ther.
trypsin (Cz))
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sinusitis (Cz))

KUSTRA, Teodor; MISIK, Adam

Preliminary reports on the surgical treatment of the antro-alveolar fistulas using Kustra's method. Otolaryng. Pol. 19 no.3:345-351 '65.

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KUSTRN, T.

Some anatomical data on the maxillary sinus obtained with the use of craniometry and their value in surgery. Bratisl. lek. listy 45 no.5:274-281 15 S '65.

1. Otolaryngologicke oddeleni Obvodniho ustavu narodniho zdravi v Martine (veduci primar MUDr. T. Kustra).

AKACIC, B.; KUSTRAK, D.; POJE, B.

Separation of furocumarine derivatives in *Ammi majus* L.
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1. Zavod za farmakognosiju Farmaceutskog fakulteta,
Zagreb.

*

TRACIĆ, Branko, prof. in. (Zagreb); MILOŠEVIĆ, Svetozar Ivan (Zagreb)

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1971, no. 51A-17, p. 10.

• Institute of Chemistry and Technology of Non-Metallic Materials, University
of Zagreb, Zagreb.

KOSSOWSKI, Stanislaw; DURLAKOWA, Irene; ALEKSANDRA, Grażyna; MARKIEWICZ, Jadwiga; LUSTROWSKA, Halina; WŁODZIMIERZEWICZ, Anna; CYMOLEWSKA, Jadwiga; LUSAR, Zofia

Clinical, bacteriological and serological studies on chronic atrophic fetid nasopharyngitis. Arch. Immun. ther. exp. 12 no.4:483-490 '64

Clinical, bacteriological and serological studies on chronic atrophic non-fetid nasopharyngitis and laryngitis. Ibid. 13:491-496

1. Department of Bacteriology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław;
The Laryngological Clinic, School of Medicine, Wrocław;
and Department of Microbiology, School of Medicine, Wrocław.

KOSSOWSKI, Stanislaw; RECZEK, Halina; KUSTRZYCKA, Helena

Stewart's tumors in the oral cavity. Otolaryngologia polska 15 no.3:327-331
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W. Jankowski.

(MOUTH neoplasms)

IWANKIEWICZ, Stanislaw; KAWEKI, Karol; KUSTRZYCKA, Helena

Pseudotuberculomas of the larynx and trachea. Otolaryng.
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we Wrocławiu Kierownik: prof. dr Z. Albert.

(TUBERCULOSIS, LARYNGEAL) (TUBERCULOMA)
(TRACHEA) (DIAGNOSIS, DIFFERENTIAL)

BROSS, Wiktor; KOWARZYKOWIE, Ilugon; KOWARZYKOWIE, Zofia; KUSTARZYCKI, Anatol

Instructive vectocardiograms in 2 patients after commissurotomy. Polski tygod. lek. 12 no.51:1964-1967 23 Dec 57.

l. (Z II Kliniki Chirurgicznej i Ośrodku Kardiologicznego Wrocławskiej Akademii Medycznej). Wrocław, ul. Marcinkowskiego 1, Zakł. Patol. Og.

i Dosw. A.M.

(COMMISSUROTOMY

postop. vectocardiograms (Pol))

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after commissurotomy (Pol))

KUSTRZYCKI, Anatol; KASPRZAKOWA, Janina; RZUCIDLO, Zbigniew

Persistent common atrioventricular canal in a 21 year-old woman. Polki
tygod. lek. 13 no.9:311-314 3 Mar 58.

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W. Bross, z Zakładu Interny I.D. i S.K.L. Oddziału we Wrocławiu na bazie
Szpitala Wojewódzkiego; kier doc. dr med. J. Kaniak i Zakładu Anatomii
Patologicznej A.M. we Wrocławiu; kier. prof. dr med. Z. Albert) Wrocław
12, ul. Olszowskiego 94/6.

(CARDIAC SEPTUM, abnorm.
persistent common atrioventricular canal in woman (Pol))

BROSS, Wiktor; KOCZOWSKI, Stefan; ARONSKI, Antoni; KUSTRZYCKI, Anatol

Open-heart surgery of Fallot's tetralogy in hypothermia.
Polski tygod lek 15 no.11:381-388 14 Mr '60.

1. Z II Kliniki Chirurgicznej A.M. we Wrocławiu; kierownik:
prof. dr Wiktor Bross.
(TETRALOGY OF FALLOT surg.)
(HYPOTHERMIA INDUCED)

BROSS, Wiktor; KOCZCROWSKI, Stefan; KUSTRZYCKI, Anatol; ARONSKI, Antoni

Open heart valvulotomy in isolated stenosis of the pulmonary artery.
Polski przegl.chir. 32 no.8/9:863-869 '60.

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Dyrektor: prof. dr W.Bross.
(PULMONARY STENOSIS surg)

BROSS, Wiktor; KOWARZYK, Hugon; KOWARZYKOWA, Zofia; KUSTRZYCKI, Anatol;
HOMIK, J.

Typical QRS vectorcardiograms during cardiac load in interauricular
septal defects. Pol. tyg. lek. 16 no. 51:1963-1966 18 D '61.

1. Z II Kliniki Chirurgicznej, Katedry Patologii Ogolnej i Doswiadcza-
nej, Osrodku Kardiologicznego przy PSK 1 A. M. we Wroclawiu)

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KUSTRZYCKI, A.

Cardiac catheterization in the diagnosis of defects in the interauricular septum. Kardiol. Pol. 5 no.1:5-12 '62.

1. Z II Kliniki Chirurgicznej AM we Wrocławiu Kierownik: prof. dr W.Bross. (HEART SEPTUM diag.) (HEART CATHETERIZATION)

BRÖSS, W.; KUSTZYCKI, A.; DĘC, L.; KOLTOWSKI, R.; BRÖSS, T.

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1. Z II Kliniki Chirurgicznej Kierownik: prof. dr W. Bröss i z Kliniki Nefrologicznej ALi we Wrocławiu Kierownik: prof. dr. Z. Wiktor. (HEART SEPTUM abnorm) (ELECTROCARDIOGRAPHY)

ALBERT, Zgymunt; KUSTRZYCKI, Anatol; RZUCIDLO, Zbigniew

Angiography of afferent and efferent blood vessels in transplantable chrysoidin hepatoma in mice. Actamed. pol. 4 no.1:21-31 '63.

1. Institute of Immunology and Experimental Therapy Polish Academy of Sciences, Wroclaw. Director: Prof. Dr. S. Slopek Department of Experimental Oncology, Wroclaw. Director: Prof. Dr. Z. Albert
II Surgical Clinic, Medical Academy, Wroclaw. Director: Prof. Dr. W. Bross Department of Pathological Anatomy, Medical Academy, Wroclaw. Director: Prof. Dr. Z. Albert.
(HEPATOMA) (ANGIOGRAPHY)

BROSS, W.; KOCZOROWSKI, S.; WREZLEWICZ, W.; KANIEWSKI, T.; ROGALSKI, E.;
KUSTRZYCKI, A.; MASLANKA, P.

Apropos of the treatment and diagnosis of bronchial adenoma.
Pol. przegl. radiol 27 no.5:381-395 S-O '63.

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(Kierownik: prof. dr med. W. Bross); Z Kliniki Radiologicznej
Akademii Medycznej we Wrocławiu (Kierowniki: doc. dr med. Z.
Kubrakiewicz).

BROSS, Wiktor; WREZLEWICZ, Wladyslaw; CISEK, Tomasz; KANIOWSKI,
Tadeusz; KUSTRZYCKI, Anatol

Pulmonary hypoplasia in a 12-year-old child. Gruzlica 31 no.7:
817-822 '63.

1. z II Kliniki Chirurgicznej AM we Wroclawiu.
(LUNG DISEASES) (ABNORMALITIES)

BROSS, Wiktor; KOCZOROWSKI, Stefan; ROGALSKI, Eugeniusz;
KUSTRZYCKI, Anatol; WREZLEWICZ, Wladyslaw

Results of the surgical treatment of bronchial adenoma. Pol.
przegl. chir. 35 no.10/11:1125-1127 '63.

l. Z II Kliniki Chirurgicznej AM we Wrocławiu Kierownik:
prof. dr W. Bross.

(BRONCHIAL NEOPLASMS) (ADENOMA)
(SURGERY, OPERATIVE)

KUSTRZYCKI, Anatol; MARCINIAK, Roman

A case of complete transposition of the pulmonary vein and persistent' upper portal vein. Five-year follow-up. Iol. tyg. lek.
19 no.40 1536-1538 5 " 164

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第二章 1949年以前的民族政策和民族关系

primary pulmonary hypertension. *Am J Cardiol* 1963; 11: 103-106.

H-22

Country : Yugoslavia
Category :

39961

Ass. Jour. :

Author : Arsenijevic, M., Jancic, M., Trifunovic, D., and
Institut. : Kustudic, D.
Title : Not Given
Effect of Microadditions of Products from the Dry
Distillation of Bituminous Coal on the Bulk Density
of a Number of Yugoslav and Other Coals

Orig. Pub. : of a Number of Yugoslav and Other Coals
Technika, 13, No 6, [?] (1958); Hem Ind, 12, No 6,
89-96 (1958)

Abstract : The authors have studied the conditions under which
the wetting of Yugoslav and imported coals (C) with
microadditions of products obtained by the dry dis-
tillation of bituminous coal leads to a greater com-
paction of the charge and raises the bulk density.
The effect of the moisture content of the C on the
above process is noted. The following increases
were obtained in the bulk density of a number of C
containing 8-9% H₂O on wetting with the substances
indicated: kerosene, 11-15%; light oil (O), 9-13%;
heavy O, 6-8%; anthracene O, 2-6%. The presence of
ash because of the hydrophilic character of the

Card: 1/2

H-86

H-22

Country : Yugoslavia
Category :

39961

Abs. Jour. :

Author :
Institut. :
Title :

Orig Pub. :

Abstract : latter lowers the effectiveness of the treatment.
For increased coke oven capacity, the authors recom-
mend the wetting of a number of C with microaddi-
tions of light, heavy, and anthracene O.
Ya. Satunovskiy

Card: 2/2

MINKOVSKIY, D.I.,kand.tekhn.nauk; KUSTYLO, V.K.,inzh.

Third Interuniversity Conference on Dielectrics and Semiconductors.
Izv.vys.ucheb.zav.;energ. 3 no.10:118 0 '60. (MIRA 13:11)
(Dielectrics) (Semiconductors)

CZECHOSLOVAKIA

KUSTYR, I.; BOZDECH, V.; Veterinary Research Center (Veterinarni Vyzkumne Stredisko), Prague - Motol; Laboratory of Serology, Neurological Clinic of the Member of Academy Henner (Serologicka Laborator Neurologicko Kliniky Akad. Hennera), Prague.

"Preparation and Titration of a Hemolytic Ambococeptor of a High Titre."

Prague, Veterinarni Medicina, Vol 11, No 5, May 66, pp 329 - 336

Abstract [Authors' English summary modified]: Hyperimmunization process was investigated on the model action of rabbit homolysin on sheep erythrocytes; the influence of the time factor, method of application, season of the year, and of sex were studied. A method is described by which a hemolytic ambococeptor for the complement fixation with a titre from 2 to 10 times higher than commercially available amboceptors can be prepared. The immunization scheme which lasts for 28 days includes 7 intradermal, and 4 intravenpus applications of the antigen. 5 figures, 3 Tables, 12 Western, 4 Czech references. (Manuscript received 30 Dec 65).

1/1

APPROVED FOR RELEASE: 03/13/2001; CIA-RDP86-00513R000927910008
FAN V, Dmitriy Tur'yevich; red.

[Classe rule] Schetnaya liniika. Izd. 17., ispr. 1964.
(MIA 17:8)
Izd-vo Nauka, 1964. 167 p.

ARKHIPOV, Vadim Matveyevich; BUDYGIN, Yevgeniy Prokof'yevich;
VOROB'YEV, N.I., prof., red.; KUCURGASHEV, I.M., red.

[Antarctica and its exploration by Soviet scientists] Antark-
tida i ee issledovanie sovetskimi uchenymi. Kazan' Izd-vo Ka-
zanskogo univ., 1959. 49 p. (MIRA 15:3)
(Antarctic regions—Soviet exploration)

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B

AUTHOR: Kusy, Vladimir; Svarc, Frantisek; Cabal, Jiri

ORG: Chemical Enterprises of Czechoslovak-Soviet Friendship (Chemicke zavody Ceskoslovensko-sovetskoho pratelstvi); Research Institute for Chemical Utilization of Coal, Zaluzi (Vyzkumny ustav pro chemické využití uhlí)

TITLE: Preparative gas chromatograph with a large injection and with automatic collection of fractions

SOURCE: Chemicke listy, no. 8, 1965, 978-984

TOPIC TAGS: gas chromatography, IR spectroscopy, chemical laboratory apparatus

ABSTRACT: The authors designed an automatic preparative apparatus suitable for a sample injection of 25 ml; they based their suggestion on experience gained in operating a small apparatus. The design allows automatic extraction of fractions, and is independent of time. The design and operating methods are described. Temperatures up to 200°C may be maintained in the apparatus; it operates in conjunction with analytical chromatography and infrared spectroscopy. Orig. art. has: 6 figures and 2 tables. [JPRS]

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AUTHOR:

Kusý, Vladimír

TITLE:

Vapour-Phase Partition Chromatography of Mixtures of
Hydrogen, Paraffins and Olefins, Using the Micro-Flare
DetectorPERIODICAL: Chemicke listy, 1960, Vol.54, No.11, pp.1168-1172

TEXT: An account is given of a further modification of the micro-flare detection method in vapour-phase partition chromatography developed originally by R.P.W.Scott and adapted later by M.M.Wirth (Vapour Phase Chromatography, ed. by D.H.Desty, Butterworth Scientific Publications, London, 1957). Wirth established that using hydrogen as the carrier gas - as recommended by Scott - it was not possible to obtain a straight base line because of the high diffusivity of hydrogen, and used nitrogen instead as a carrier, the column effluent being injected into the constant hydrogen stream and burnt at the tip of the capillary. The present author has now adopted in broad outlines the principle of Wirth with only minor modifications and the present paper gives constructional and operating details of the method when applied to the partition of mixtures of hydrogen, the lower paraffins and

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